

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
19 May 2005 (19.05.2005)

PCT

(10) International Publication Number  
**WO 2005/045337 A1**

(51) International Patent Classification<sup>7</sup>: **F25J 1/00**,  
3/00, C07C 7/00

California 92656 (US). **GRAHAM, Curt** [US/US]; Fluor Corporation, Engineering Building, One Fluor Daniel Drive, Aliso Viejo, California 92656 (US).

(21) International Application Number:  
PCT/US2004/019490

(74) Agent: **FESSENMAIER, Martin**; Rutan & Tucker, LLP, 611 Anton Blvd., Suite 1400, Costa Mesa, California 92626 (US).

(22) International Filing Date: 17 June 2004 (17.06.2004)

(25) Filing Language: English

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(26) Publication Language: English

(30) Priority Data:  
60/517,298 3 November 2003 (03.11.2003) US  
60/525,416 25 November 2003 (25.11.2003) US

(71) Applicant (*for all designated States except US*): **FLUOR CORPORATION** [US/US]; One Enterprise Drive, Aliso Viejo, California 92656 (US).

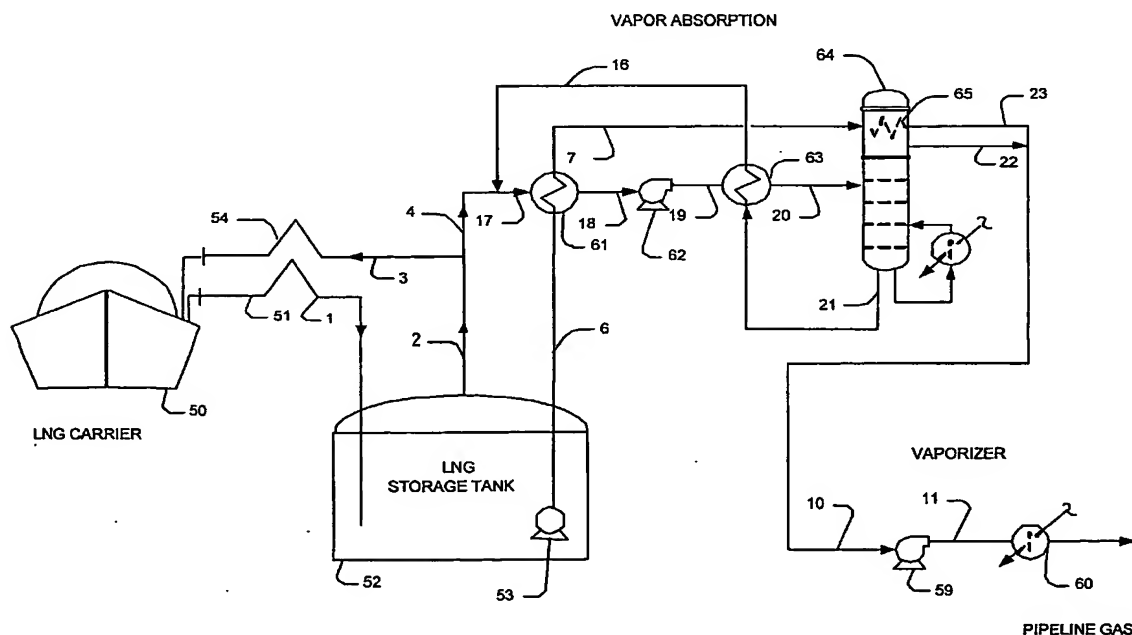
(72) Inventors; and

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,

(75) Inventors/Applicants (*for US only*): **MAK, John** [US/US]; Fluor Corporation, Engineering Building, One Fluor Daniel Drive, Aliso Viejo, California 92656 (US). **NIELSEN, Richard, B.** [US/US]; Fluor Corporation, Engineering Building, One Fluor Daniel Drive, Aliso Viejo,

[Continued on next page]

(54) Title: LNG VAPOR HANDLING CONFIGURATIONS AND METHODS



(57) Abstract: LNG vapor from an LNG storage vessel is absorbed using C<sub>3</sub> and heavier components provided by a fractionator that receives a mixture of LNG vapors and the C<sub>3</sub> and heavier components as fractionator feed. In such configurations, refrigeration content of the LNG liquid from the LNG storage vessel is advantageously used to condense the LNG vapor after separation. Where desired, a portion of the LNG liquid may also be used as fractionator feed to produce LPG as a bottom product.



SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, — *with amended claims*  
GW, ML, MR, NE, SN, TD, TG).

**Published:**

— *with international search report*

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*